

Abstract of the Disclosure

A testing system includes simulation equipment for generating a radiofrequency test signal for the receivers of a base transceiver station, which is equipped with an intelligent array antenna having  $N$  sensors. The simulation equipment generates a complex signal consisting of  $N$  identical radiofrequency signals with differing phases. These signals are conveyed towards  $N$  antenna input connectors of the receivers to be tested. The  $N$  test signals are obtained by generating as many groups of  $N$  digital isofrequential carriers as are required to simulate the directions of a useful signal with an arbitrary number of echoes, and the directions of an arbitrary number of isofrequential interferent carriers. The  $N$  carriers of each group are appropriately modulated and digitally multiplied by the same number of relevant beamforming coefficients to produce, within each group, gradually increasing phase values.